Performance Tasks for Grade four, primary stage, second term

(1) Energy Transfer

Selim has waked up, had his breakfast, said good bye to his family, and took his bike to school. When he arrived to school, he used a musical instrument during the morning school line, and then he went up the stairs to his classroom. He switched on the electric lamp and the fan of the classroom.

1- Determine the forms of energy transfer in the previous text, then complete the table:

Device name	The energy consumed	The energy produced

2- Choose another model that we use in our daily activity and determine the energy transfer in it.

Device name:
The energy consumed:
The energy produced:

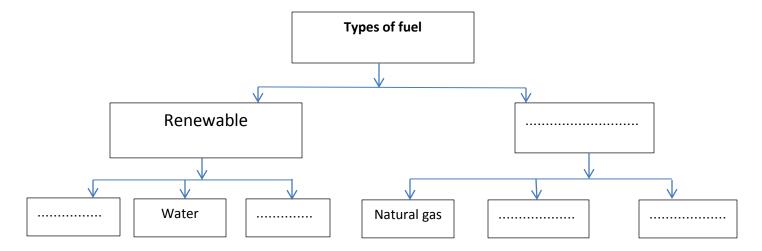
Energy Path

Follow the energy path using graphs starting from the source of energy to the produced energy (energies) to the following devices:

1- Toy car operating by batteries		
2- Gas flame		
3- The robot used on the moon surface		
4- Electric washing machine		

Types of fuel

Complete the following chart. Then, complete the following sentences



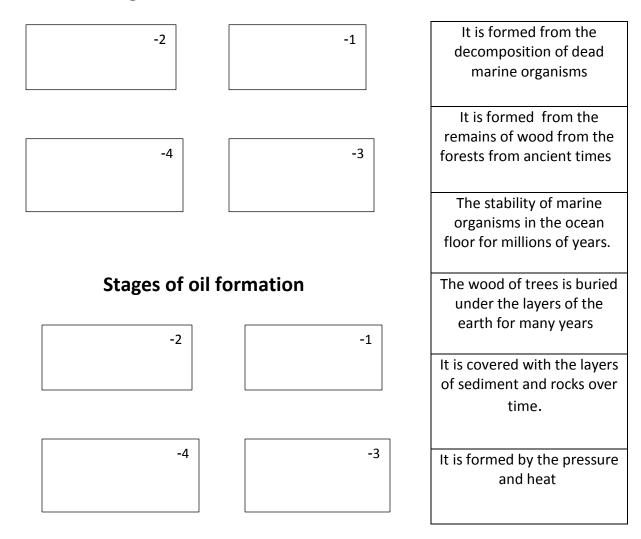
Complete the following sentences

- The origin of all the types of fuel is
- The wind energy is used to generate
- The coal is extracted from

Formation of fossil fuels

Choose the right sentences from the table and put them in its right place

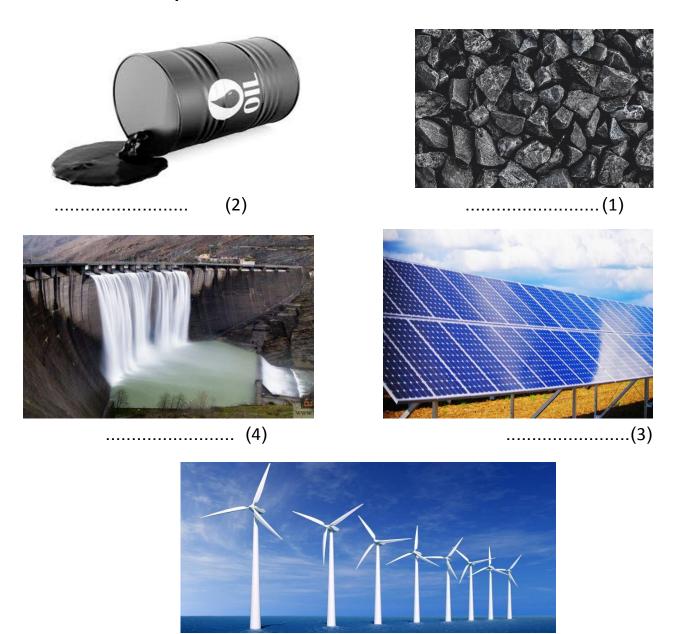
Stages of coal formation



The electrical energy production

the following pictures express resources we use to generate electricity

- Determine what the following pictures express
- Classify them into renewable and non-renewable resources



Complete the following table and determine the resource type: renewable or non-renewable

Picture number	The source of energy	renewable sources Non- Renewal	
			resources

Performance Tasks for Grade four, primary stage, second term

(1) Energy Transfer

Selim has waked up, had his breakfast, said good bye to his family, and took his bike to school. When he arrived to school, he used a musical instrument during the morning school line, and then he went up the stairs to his classroom. He switched on the electric lamp and the fan of the classroom.

Determine the forms of energy transfer in the previous text, then complete the table:

	Device name	The energy consumed	The energy produced	
	Bike	chemical	kinetic	
SOUTH SECURITION IN THE	instrument	kinetic	sound	
	Electric lamp	electric	light and ther	mal
	Fan	electric H	cinetic and tr	nermal

2- Choose another model that we use in our daily activity and determine the energy transfer in it.

Device name:	1 V
The energy consumed:	- electric
The energy produced:	
SC	ound and light

77/

Energy Path

Follow the energy path using graphs starting from the source of energy to the produced energy (energies) to the following devices:

1- Toy car operating by batteries



2- Gas flame

Chemical energy stored in natural gas → burning gas → thermal energy

3- The robot used on the moon surface

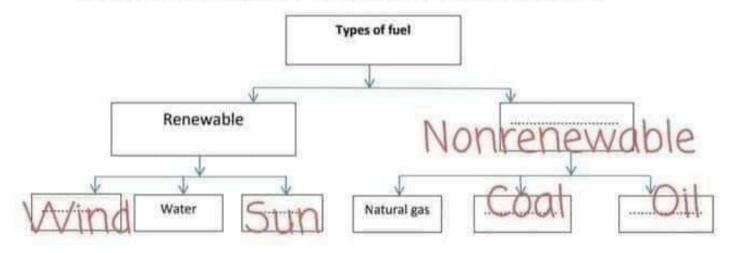
Solar energy in solar panels → electric energy → kinetic and thermal energies

4- Electric washing machine

Electric energy in washing machine kinetic and sound energies

Types of fuel

Complete the following chart. Then, complete the following sentences



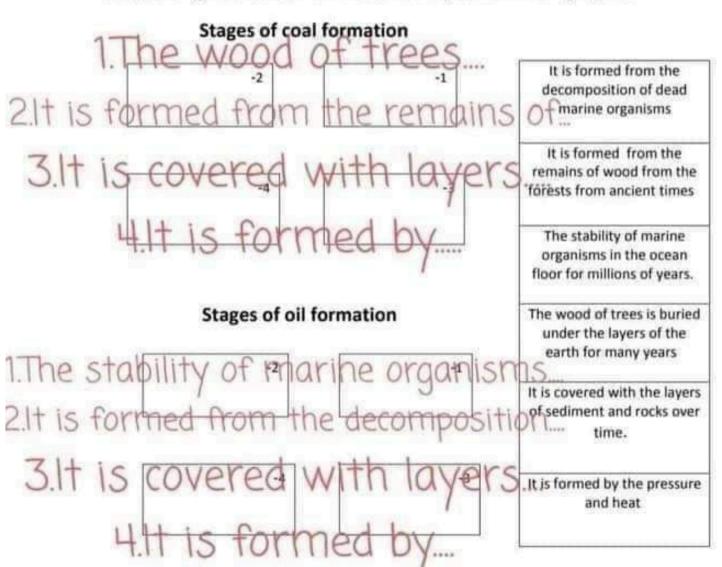
Complete the following sentences

- The origin of all the types of fuel is

sun

Formation of fossil fuels

Choose the right sentences from the table and put them in its right place



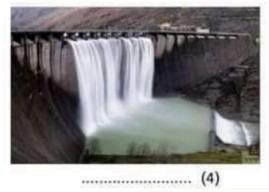
The electrical energy production

the following pictures express resources we use to generate electricity

2. Ol- Determine what the following pictures express

Classify them into renewable and non-renewable resources









.....(5)